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Liquid crystal display device in electronic device e.g. television, has multiple pixels having storage circuits

Patent Assignee: SEMICONDUCTOR ENERGY SOURCE INST CO LTD (SEME);

SEMICONDUCTOR ENERGY LAB (SEME); KOYAMA J (KOYA-I)

Inventor: KOYAMA J

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US 20020024485 A1 20020228 US 2001916306 A 20010730 200237 B

CN 1337669 A 20020227 CN 2001124995 A 20010808 200237

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KR 2002013727 A 20020221 KR 200147409 A 20010807 200257

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Abstract (Basic): US 20020024485 A1

NOVELTY - Each of the pixels respectively have storage circuit

(A1-A3 and B1-B3) such as SRAM, DRAM, FeRAM, etc.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included

for

liquid crystal display device driving method.

USE - For electronic devices such as CD and DVD players.

television, personal computer, video camera, head mount display, portable information terminal such as electronic book, mobile computer, cell phone, etc.

ADVANTAGE - Electric power consumption during display of still picture is greatly reduced by providing pixels with storage circuits.

DESCRIPTION OF DRAWING(S) - The figure shows the circuit diagram of pixel with multiple storage circuits.

Storage circuits (A1-A3,B1-B3)

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Title Terms: LIQUID; CRYSTAL; DISPLAY; DEVICE; ELECTRONIC; DEVICE;

TELEVISION; MULTIPLE; PIXEL; STORAGE; CIRCUIT

Derwent Class: P85; T01; T04; U14; W01; W03; W04

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[71]申请人 株式会社半导体能源研究所

地址 日本神奈川县

[72]发明人 小山润

[74]专利代理机构 中国专利代理(香港)有限公司 代理人 吴增勇 张志醒

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[54]发明名称 液晶显示装置及其驱动方法 [57] 編纂

本发明的目的之一是提供带有具有新电路结构的驱动电路和像 索、能够有低功耗的液晶显示装置。在使用n位数字图像信号(n为整数)显示图像的液晶显示装置中,通过在每个像雾中装入n×m个存储电路(m为整数),它包括在像雾中存储 m 帧数字图像信号的功能(在实例的所示附图中,n=3,m=2,3位×2帧被存储在存储电路 A1至 A3和 B1至 B3内)。因此,在显示静止图像时,通过重复读取 暂时存储在存储电路中的数字图像信号并且在每帧中显示,可以停止源信号线驱动电路在这段时间内的驱动,以减小液晶显示装置的功耗。

